

# RANDOM ACCESS METHOD OF ACCOUNTING AND CONTROL

**Transactions Processed Individually, as they occur (in-line)**  
eliminates sorting and collating  
avoids peak loads  
continuous flow of work streamlines operations  
decisions made automatically during processing

**Related Records Updated in same Processing Step**  
records always up to date  
closer control over operations  
reports prepared without preliminary processing at end of accounting period  
need for action is signaled immediately

**Direct Interrogation of Memory, Automatic Response**  
sound decisions based on accurate, up-to-the-minute facts  
interim results of processing can be automatically typed out for management consideration

Since transactions are processed as they occur, there is no waiting or lost time. The emphasis is on constant availability of information. With 305 RAMAC records are always current and up to date.



## APPLICATIONS

305 RAMAC's advanced concepts can be applied to almost every phase of business accounting and record keeping and—in many cases—will encourage entirely new and improved methods for the performance and control of operations.

For complete information concerning the adaptability of 305 RAMAC to your business, telephone or write the IBM branch office in your community.

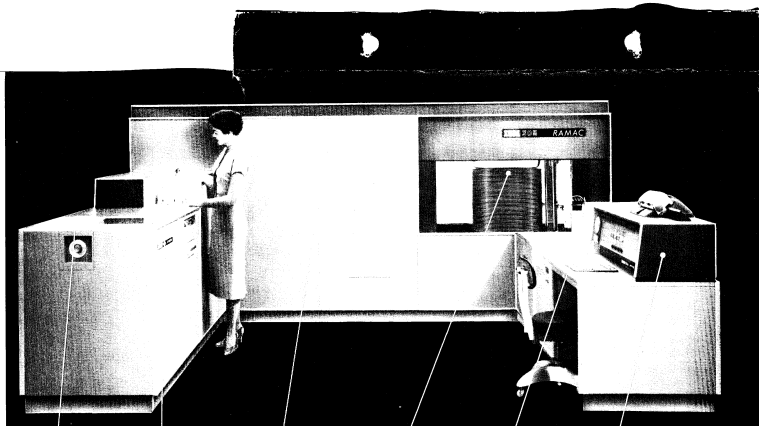
or  
International Business Machines Corporation  
590 Madison Avenue, New York 22, New York

**IBM**

RANDOM  
ACCESS  
METHOD OF  
ACCOUNTING AND  
CONTROL



**A Compact...  
Complete...  
Commercial...  
Data Processing  
Machine**



**what 305 RAMAC<sup>®</sup> means to business**

305 RAMAC is *more* than a remarkable new kind of general-purpose data processing machine with tremendous potential for organizations of all sizes. 305 RAMAC is *more* than a compact, self-contained "electronic bookkeeping department" that produces up-to-the-minute facts from ever-current files. 305 RAMAC is the introducer: the forerunner of accounting to come—the modern answer to better business control.

Commercial data processing today depends largely on the mainframe which, in turn, depends upon access to those records affected by transactions. Records stored in 305 RAMAC can be located directly—without searching through unsorted information. As a result, 305 RAMAC enables revolutionary "in-line" data processing: the essence of the random access method of accounting and control.

Instead of processing data in accumulated batches, each transaction is processed as it happens, and at the same time, every related record in DeL. Storage is adjusted. For example, when used for inventory control and billing, 305 RAMAC can, from a single order,

- determine availability
- price each item
- adjust stock balances
- invoice the customer
- prepare accounts receivable record
- accumulate data for later sales analyses
- credit salesman's commission account

Files in 305 RAMAC always reflect the status NOW, not as of the last updating period. Through the random access method of accounting and control, sorting and collating often are completely eliminated. At the end of an accounting period, reports can be prepared without preliminary processing. Further, in response to queries from the console keyboard, 305 RAMAC can—at any time—furnish specific, accurate facts on which to base decisions.

This versatile, new serial printer—with tape-controlled carriage—prepares reports at speeds up to 80 lines per minute, depending on the number of printing positions per line.

This unit punches output data from 305 RAMAC into IBM cards, in any desired format, at speeds up to 100 cards per minute. Punching and printing can occur at the same time.

Within this section are magnetic cores, electronic circuitry and a magnetic drum to store programs, rearrange information and perform arithmetical and logical processing of data. A wired control panel contributes to logical decision making, as well as ease of programming.

Any record stored here can be located directly at random, without searching through unrelated information. Capacity is 3,000,000 alphabetical characters, stored in magnetic spots on the 50 rotating metal disks, readable through the protective glass cover.

This unit transfers data from punched cards into 305 RAMAC at speeds up to 75 cards per minute. Card reading can occur simultaneously with other programmed operations. Several transactions can be recorded in one card to accelerate data input.

From this console, by means of the transmitted keyboard, memory can be interrogated for specific facts at any time. Answers are automatically typed by the receiving typewriter, mounted on the console. The various console indicator lights and switches aid in monitoring operations.

**NOW**